

# ABSTRACT:

The invention relates to a process for the evaluation of a received signal of an SAR/MTI pulsed radar system emitting transmitted SAR and MTI pulses with a respective definable pulse repetition frequency ( $PRF_{SAR}$ ,  $PRF_{MTI}$ ), the received signal being a superimposition consisting of echo pulse sequences of SAR echo pulse signals and MTI echo pulse signals. According to the invention, in the received echo pulse sequence of the received signal, each pulse, corresponding, to an integral multiple of an integral ratio of the pulse repetition frequency  $PRF_{MTI}$  of the transmitted MTI signal to the pulse repetition frequency  $PRF_{SAR}$  of the transmitted SAR signal and received after a transmitted SAR pulse, is evaluated in an SAR process, and the remaining pulses of the received echo pulse sequence of the received signal are evaluated in an MTI process, in which case the pulse for the MTI signal processing absent as a result of the SAR signal processing is reproduced by means of interpolation methods.

(Figure 3)

Translation of Figures:

Sendepuls	transmitted pulse
Echopuls	echo pulse